

(19) World Intellectual Property Organization
International Bureau



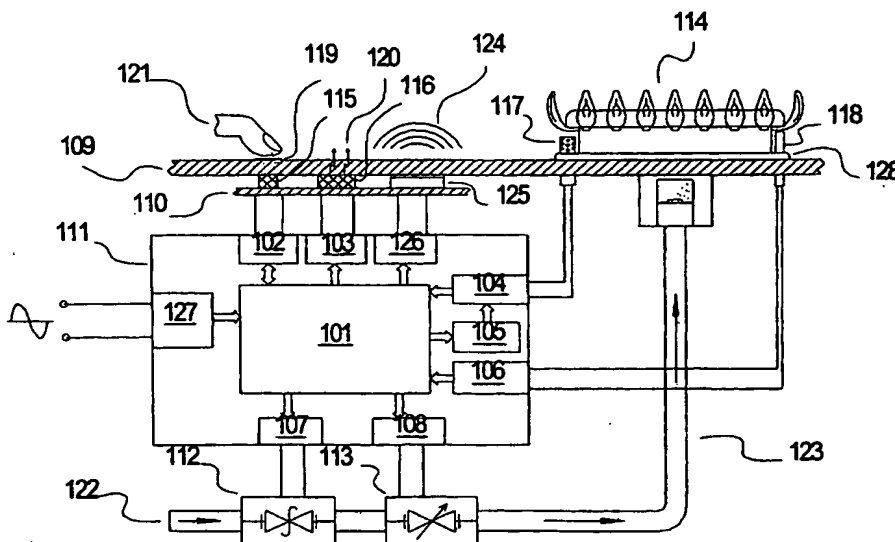
(43) International Publication Date
26 April 2001 (26.04.2001)

PCT

(10) International Publication Number
WO 01/29483 A1

- (51) International Patent Classification⁷: F23N 5/20, (74) Agent: TOUW, Theodore, R.; 4 Forest Lane, Westford, VT 05494 (US).
F24C 3/12
- (21) International Application Number: PCT/US00/28624 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 16 October 2000 (16.10.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/159,885 18 October 1999 (18.10.1999) US
- (71) Applicants and
(72) Inventors: REPPER, Pierre [CA/CA]; 90 Vincent Street, Chateaugay, Québec J6J2E6 (CA). OLSON, Allen [US/US]; P.O. Box 108, Wolcott, VT 05494 (US). SHUTE, Alan, B. [US/US]; 1126 Moulton Lane, Stowe, VT 05672 (US). SHUTE, Christa, B. [US/US]; 56 Luce Hill Road, Stowe, VT 05672 (US). SHUTE, Suzanne [US/US]; 1126 Moulton Lane, Stowe, VT 05672 (US). ZHOU, Feng [CA/CA]; Apt. 22, 1450 Morisset Avenue, Ottawa, Ontario K1Z8H5 (CA).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— With international search report.
— With amended claims and statement.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ELECTRONIC GAS COOKTOP CONTROL WITH SIMMER SYSTEM AND METHOD THEREOF



(57) Abstract: An electronically activated gas cooktop control system, responsive to a touch-sensitive user interface, and capable of providing a predetermined range of cooking and simmer levels of BTU output, has two complementary heating modes of operation. A first heating mode of operation is provided to produce a wide selection of simmer levels of BTU output, by electronically sequencing a solenoid-operated modulating gas valve "on" and "off", at a predetermined level of flame. A second cooking mode of operation is provided by electronically modulating the level of flame, through use of a pulse-width-modulation (PWM) output signal to produce a wide selection of cooking levels of BTU output. An igniter system capable of insuring proper ignition of gas without generating harmful electromagnetic interference is also provided.

WO 01/29483 A1